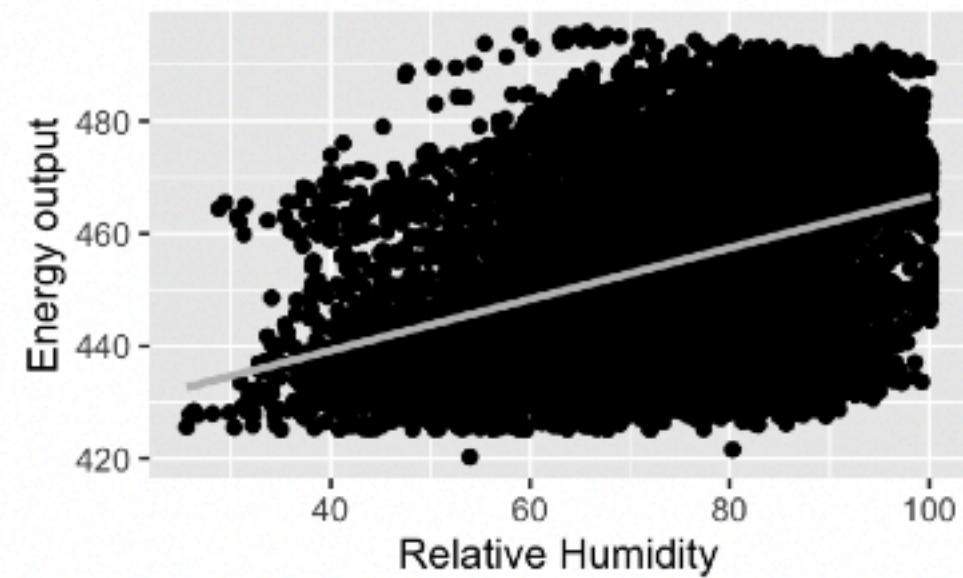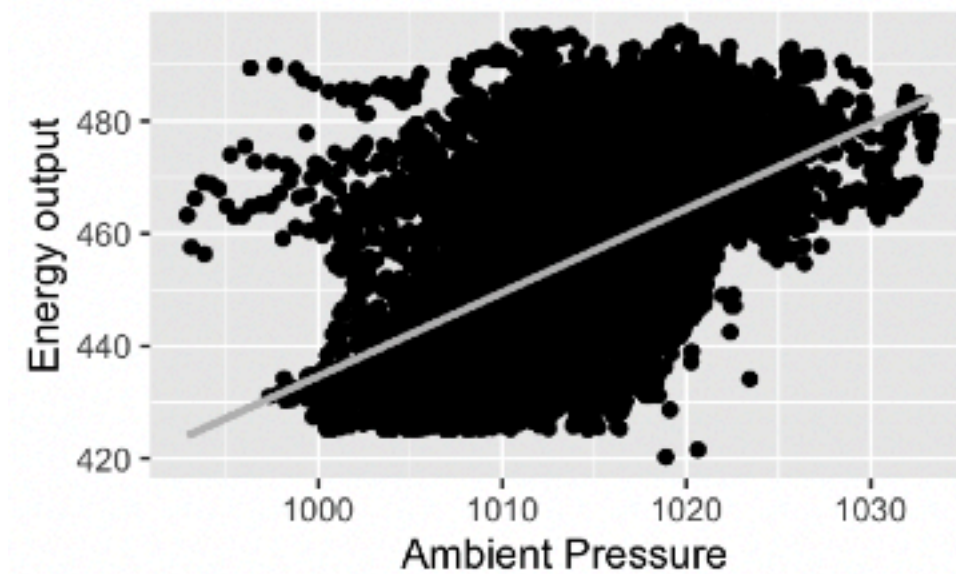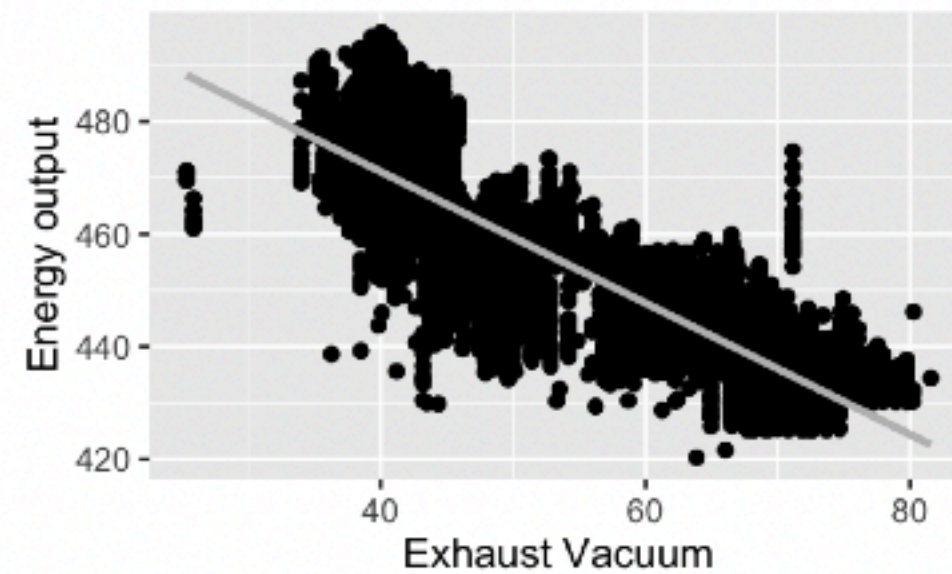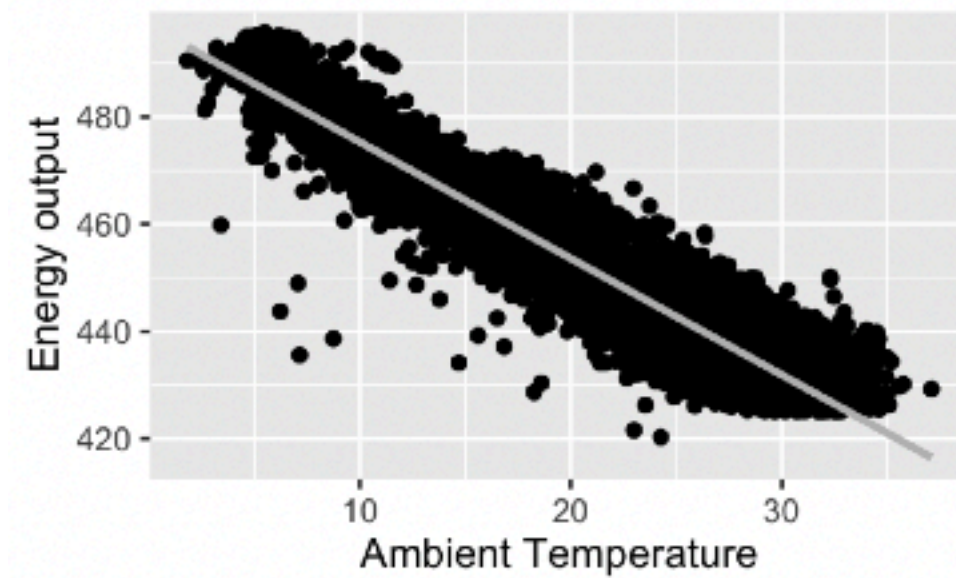# Relations of the predictors with the response

# Modelling

**Regression task** since all the predictors and the response are continuous variables.

A **gradient boosted decision tree** was used to solve the regression task.

A more simple and interpretable model (**linear regression**) was used as a baseline to compare the performance of the gradient boosting model.

**Lasso and ridge** methods were applied, multicollinearity wasn't a problem and the improvement in terms of test error was minimal so I decided in favor of the more simple linear regression.